

## CLAIMS

What is claimed is:

1 1. A method for multiple memory aliasing for a configurable system-on-a-  
2 chip, comprising:

3 executing code from a read-only memory (ROM) internal memory, said

4 ROM internal memory having an alias;

5 locating a configuration program in the ROM internal memory;

6 disabling the ROM internal memory alias; and

7 jumping to a secondary initialization routine located in a FLASH

8 external memory.

1 2. The method of claim 1 further comprising:

2 configuring the system-on-a-chip using the secondary initialization

3 routine located in the FLASH external memory.

1 3. The method of claim 2 further comprising:

2 resetting a central processing unit of the system-on-a-chip.

1 4. The method of claim 3 further comprising:

2 executing code starting with the bottom of the ROM internal memory.

1 5. The method of claim 1, wherein the FLASH external memory has an  
2 external alias, the method further comprising:  
3 selectively programming the alias of the ROM internal memory;  
4 selectively programming the external alias of the FLASH external  
5 memory; and  
6 programming the priority of the alias and the external alias.

1 6. An apparatus for multiple memory aliasing for a configurable system-  
2 on-a-chip, comprising:  
3 means for executing code from an internal memory, said internal  
4 memory having an alias;  
5 means for locating a configuration program in the internal memory;  
6 means for disabling the external memory alias; and  
7 means for jumping to a secondary initialization routine.

1 7. The apparatus of claim 6 further comprising:  
2 means for configuring the system-on-a-chip using the secondary  
3 initialization routine.

1 8. The apparatus of claim 7 further comprising:

2 means for resetting a central processing unit of the system-on-a-chip.

1 9. The apparatus of claim 8 further comprising:

2 means for executing code starting with the bottom of the internal  
3 memory.

1 10. The apparatus of claim 9 further comprising:

2 means for setting up an application program for the system-on-a-chip  
3 from the internal memory.

1 11. A computer readable medium having instructions which, when executed  
2 by a processing system, cause the system to perform a method comprising:

3 executing code from an internal memory, said internal memory having  
4 an alias;

5 locating a configuration program in the internal memory;

6 disabling the internal memory alias; and

7 jumping to a secondary initialization routine.

1 12. The medium of claim 11, wherein the executed instructions further cause  
2 the system to:

3           configure the system-on-a-chip using the secondary initialization  
4 routine.

1   13.    The medium of claim 12, wherein the executed instructions further cause  
2 the system to:  
3           reset a central processing unit of the system-on-a-chip.

1   14.    The medium of claim 13, wherein the executed instructions further cause  
2 the system to:  
3           execute code starting with the bottom of the internal memory.

1   15.    The medium of claim 14, wherein the executed instructions further cause  
2 the system to:  
3           set up an application program for the system-on-a-chip from the internal  
4 memory.